Application/Control Number: 09/782,153

Art Unit: 2600

### CLMPTO 08/30 /04 JW

# Amend Claims 1&5,

## No 2 Canceled

This listing of claims will malace all prior versions, and listings, of claims in the application:

#### Listing of Cishne:

'. (Currently Amended) A time synchronization system comprising:

- a GF5 (Global Positioning System) receiver for receiving a time signs from a Global Positioning System (GPS), and outputting a UTC (Universal Time Coordinated) synchronization reference pulse signs synchronizing with UTC and a UTC synchronization absolute time signal composes of a serial signal representing an absolute time; and
- 6 (IM6 signal distributor for generating a reference time signal axis the UTC synchronization reference signal axis the UTC synchronization absolute time signal, and tremorable time times signal, and tremorable time times time alignal, and tremorable time times time alignal to a durality of distributed deniable order terminal devices.

where a said time signal distriction synchronizes a fising edge of the UTC synchronization reference signal with UTC, and transmits the time synchronization signal to each of each jerninglication at least perfect.

#### 2. (Canceles).

3. (Originall A time synchronization system economing to claim 1, wherein each terminal device localistes a naterance clock expecting in synchronization with the rising edge of the U.C. synchronization reference algoral, for generating a time signal representing a time on the finer error than a minimum time unit that is proceeded in the U.C. synchronization absolute time agraal, and reference clock correction means for companing an internal time value sasted on said reference clock with an external time value synchronization reference signal, and generating said reference clock so that

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the time of said reference clock synchronization with the UTC synchronization reference signal.

- 4. (Criginal) A time synchronization system according to daim 3, wherein sais internal dack correction means includes means for changing a unit colimiting width of the correction, corresponding to a magnitude of a time efficience.
- (Currently Amended) A time synchronization synchronizing system assessed to claim 1. <u>comprising</u>;
- a GPS (Global Positioning System) receiver for receiving a time signal from 8 Global Positioning System (GPS), and purputting a JTC (Universal Time Coordinated) synchronization reference pulse signal synchronizing with UTC and UTC synchronization absolute time signal composed of 6 serial signal representing an absolute time; and
- a time signal election for generating a reference find signal by synthesizing the UTC synthronization reference signal and the UTC synthronization reference signal in distribution to a plurelity of distributed control oriented terminal devices,

wherein it impossible of receiving the UTC synchronization time against top go internal reference signal generator for generating an internal reference signal synchronizing with the UTC synchronization reference signal, an internal effective signal generator for generating an internal absolute time signal entertained time signal and the GE's receiver, and signal synthesizing on the fine signal distributor generates an internal time signal by synthesizing the internal reference signal and the internal absolute time signal, and transmits this internal time signal as a substitute for the reference time signal in distribution to said respective remained eavises.

- 6. (Original) A time symmetriciting system according to claim 5, wherein said amp signal distribution if impossible of receiving the time signal from said GPS receiver, synthesizes the internal time signal and the internal reference signal and the internal absolute time signal are not overlapped in time.
- 7. (Dignet) A time synchronizing system according to pain 1, wherein each of said terminal devices includes an internal clock and, if unable to receive the reterence rime signal from said time signal distributor, continues a line eignal process by use of said internal clock.